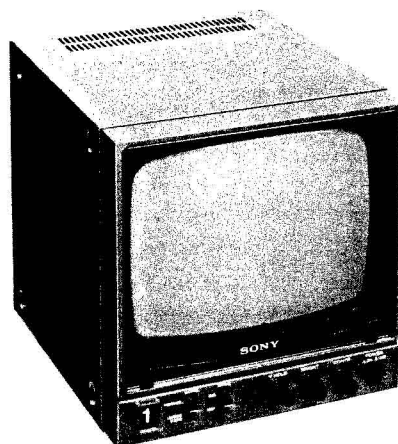


# PVM-91CE

## SERVICE MANUAL

*AEP Model*



October, 1982

### SPECIFICATIONS

|                            |   |
|----------------------------|---|
| System                     | CCIR standard   |
| Picture tube               | 9 inches measured diagonally<br>90-degree deflection    |
| Resolution                 | 800 lines (horizontal)                                  |
| Video input                | Composite: 0.5 V – 2 V p-p, negative                    |
| Sync input                 | 1 V – 8 V p-p, negative                                 |
| Video/sync input impedance | High impedance for loop-through ;<br>75 ohms terminated |
| Power requirements         | 220 V ac, 50 Hz   |
| Power consumption          | 38 W (max.), 29 W (average)                             |
| Dimensions                 | Approx. 216 × 228.5 × 246.5mm (w/h/d)                   |
| Weight                     | Approx. 6.1 kg  |


Design and specifications subject to change without notice.



VIDEO MONITOR  
**SONY**®

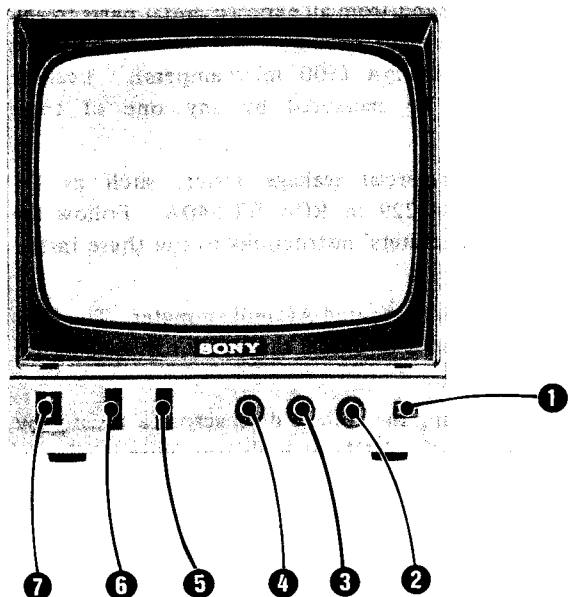
**MON**

**SAFETY-RELATED COMPONENT WARNING !!**

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

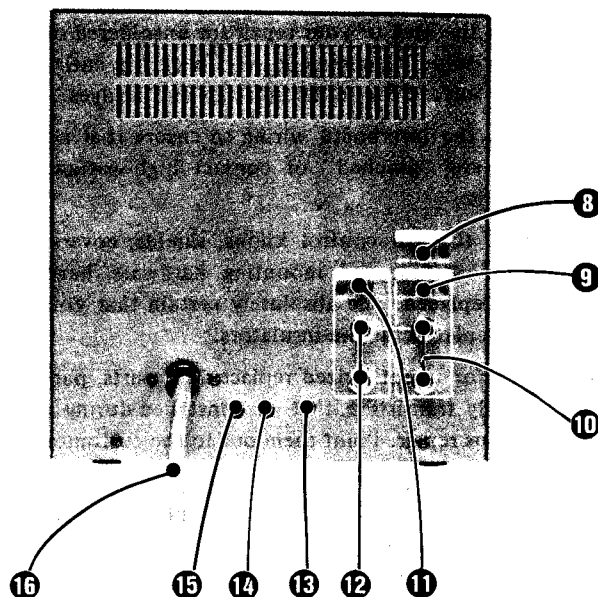
# 1. GENERAL

## LOCATION OF CONTROLS AND CONNECTORS



### Front panel

- 1 POWER switch**
- 2 CONTRAST control**
- 3 BRIGHT (brightness) control**
- 4 V HOLD (vertical hold) control**  
Adjusts the vertical stability of the picture.
- 5 SYNC select switch**  
INT: when composite video signal is supplied without external sync.  
EXT: when an external pulse is supplied from an external sync generator, with either a composite or non-composite video signal.
- 6 SCAN select switch**  
NORMAL: for normal scanning.  
UNDER SCAN: for underscanning to display the whole picture contained in the video signal. The display size is reduced by about 10%.
- 7 Number label window**  
When several monitors are used, classify each monitor by inserting one of the supplied labels (1 to 5).



### Rear panel

- 8 DC CLAMP switch**  
ON: The video signal is clamped with the pedestal voltage level, so that black level is fixed.  
OFF: Black level is not fixed.
- 9 SYNC 75-ohm termination switch**  
ON: When an equipment is not connected to the SYNC OUT connector.  
OFF: When an equipment is connected to the SYNC OUT connector.
- 10 SYNC IN/OUT connectors (BNC type)**
- 11 VIDEO 75-ohm termination switch**  
ON: When the monitor is used singly or is the last of looped chain.  
OFF: When another monitor is connected to the VIDEO OUT connector.
- 12 VIDEO IN/OUT connectors (BNC type)**
- 13 FOCUS control**  
Adjust the picture focus. Use a screwdriver to turn the control.
- 14 V LIN (vertical linearity) control**  
Adjust the vertical dimension of upper or lower part of the picture.
- 15 V SIZE (vertical size) control**  
Adjust the vertical dimension of the whole picture.
- 16 AC power cord**  
Connect to a 220 V ac outlet.

## SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any). Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
9. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

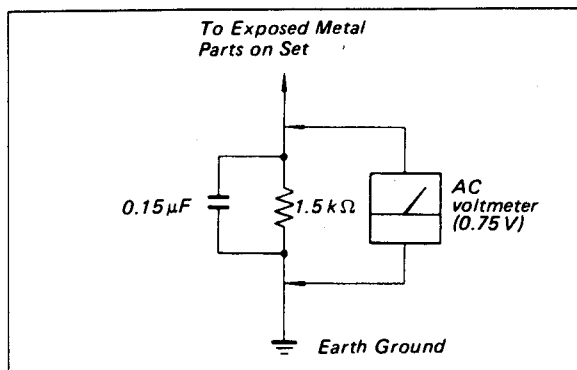


Fig. A. Using an AC voltmeter to check AC leakage.

## LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

## HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60–100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

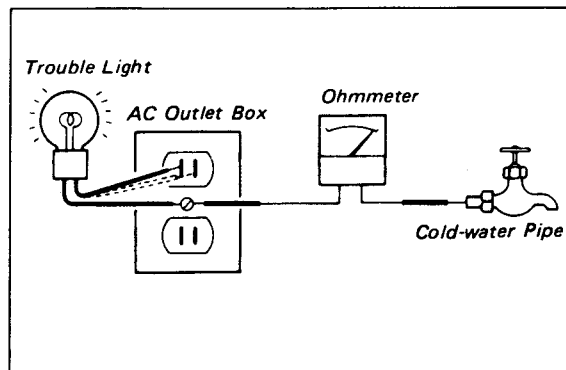


Fig. B. Checking for earth ground.

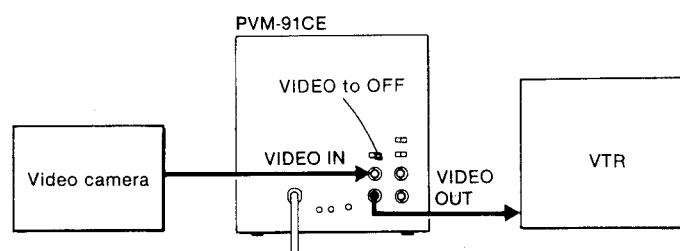
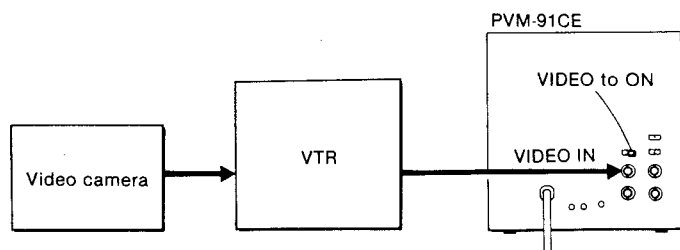
## CONNECTION EXAMPLE

### As a video camera monitor

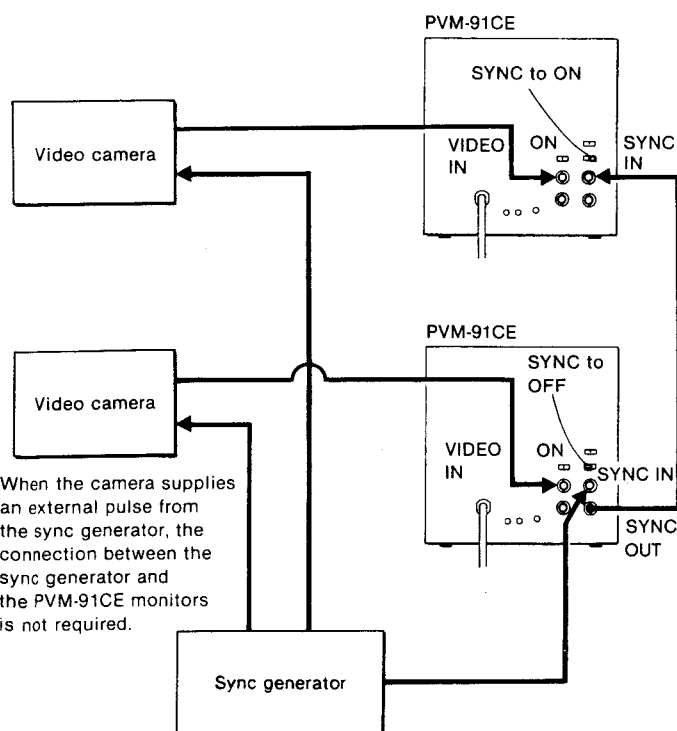


### Used with a video camera and a VTR

Either connection is possible.

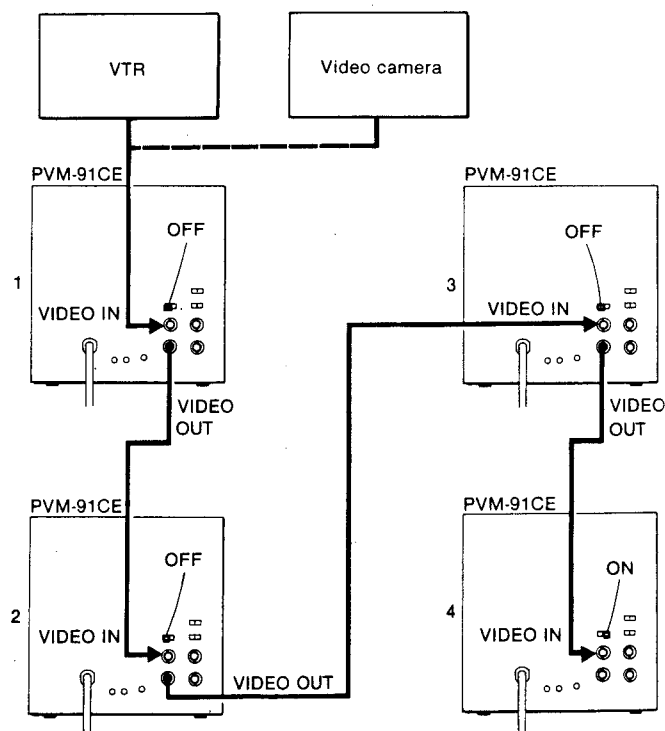


### Used with video cameras and a sync generator



### Multiple monitor connection

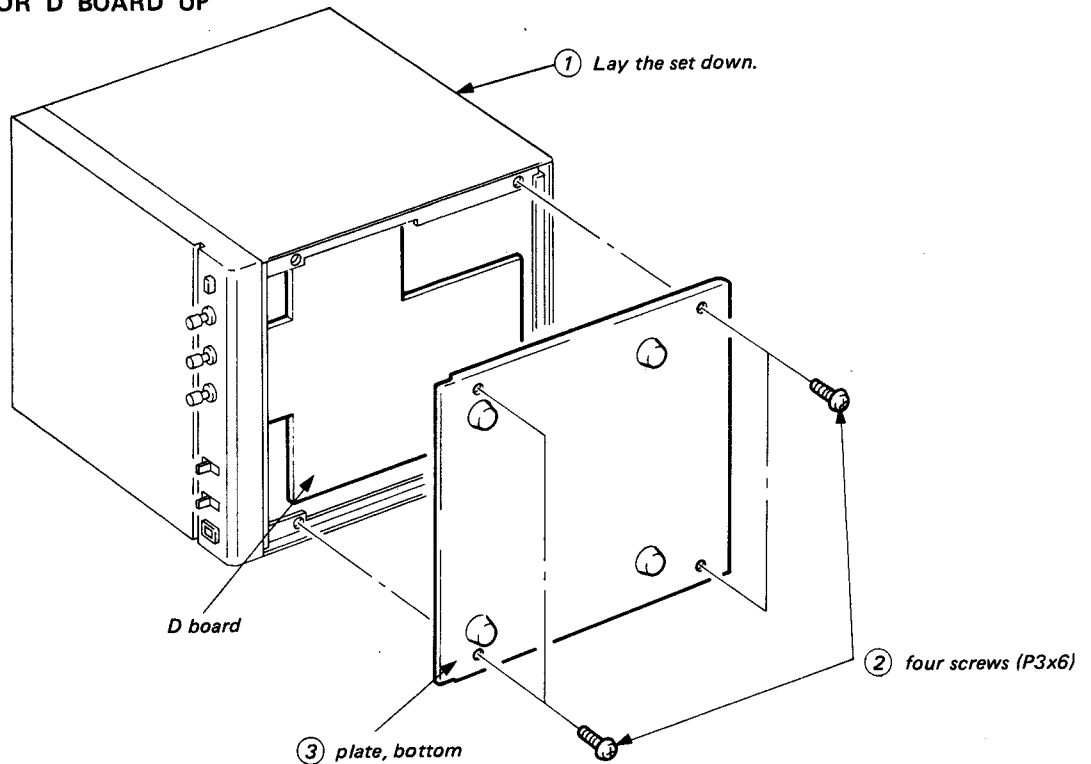
Up to 10 monitors may be connected.



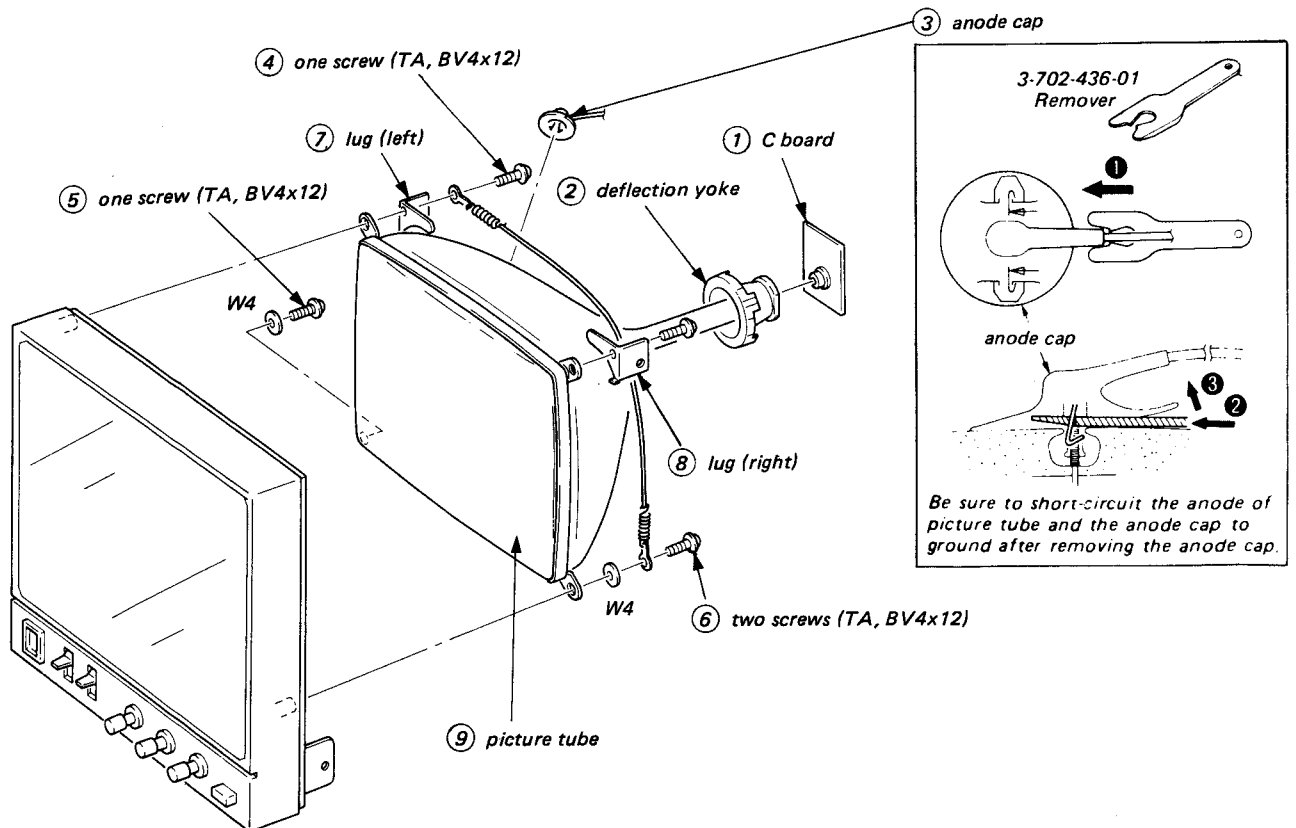
Set the VIDEO switch of the **last monitor** to ON and of the other monitors to OFF.

## 2. DISASSEMBLY

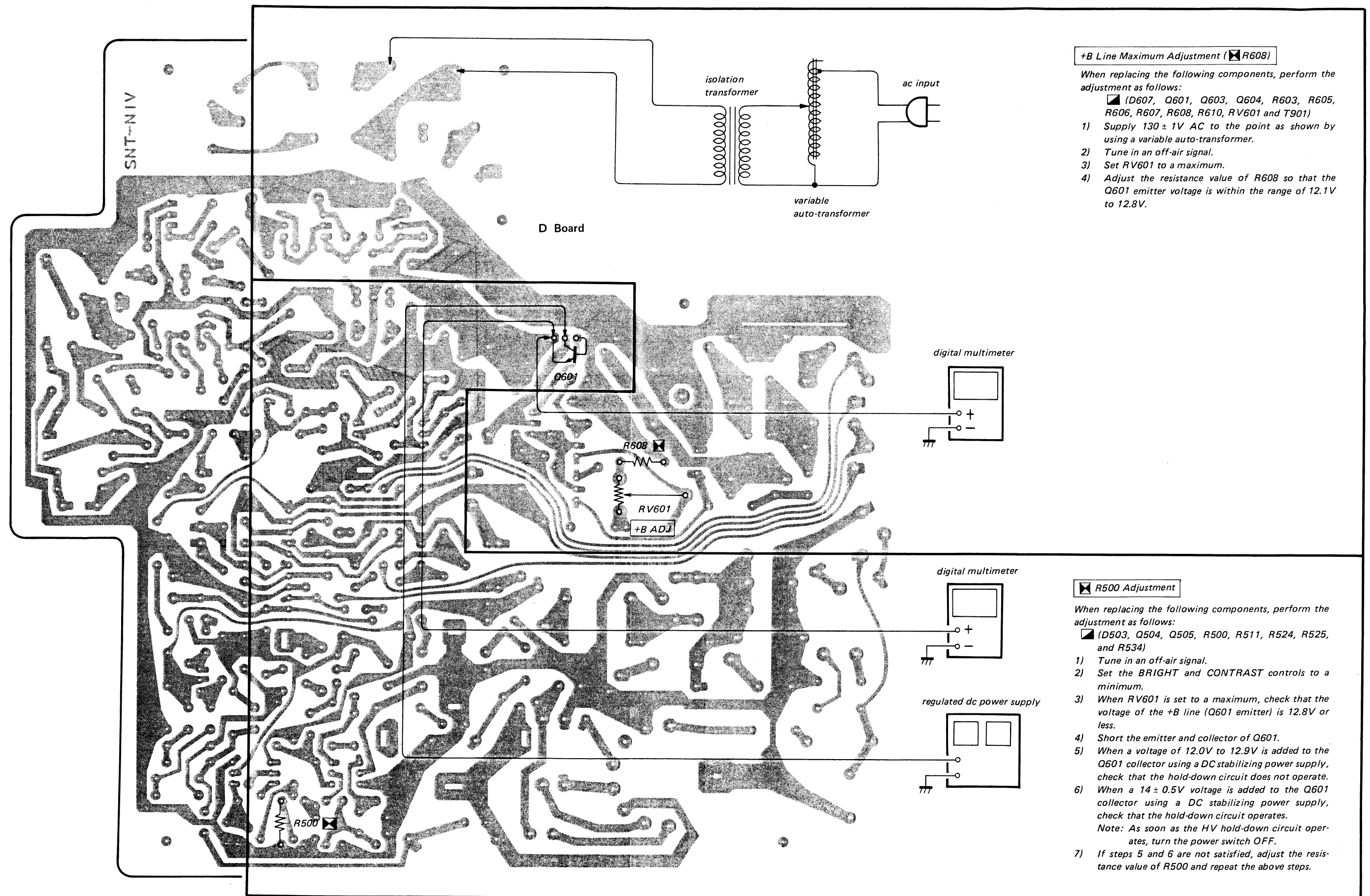
### 2-1. CHECKING FOR D BOARD UP



### 2-2. PICTURE TUBE REMOVAL



### 3. SAFTY RELATED ADJUSTMENTS



#### +B Line Maximum Adjustment (R608)

When replacing the following components, perform the adjustment as follows:

(D607, Q601, Q603, Q604, R603, R605, R606, R607, R608, R610, RV601 and T901)

- 1) Supply  $130 \pm 1V$  AC to the point as shown by using a variable auto-transformer.
- 2) Tune in an off-air signal.
- 3) Set RV601 to a maximum.
- 4) Adjust the resistance value of R608 so that the Q601 emitter voltage is within the range of 12.1V to 12.8V.

#### R500 Adjustment

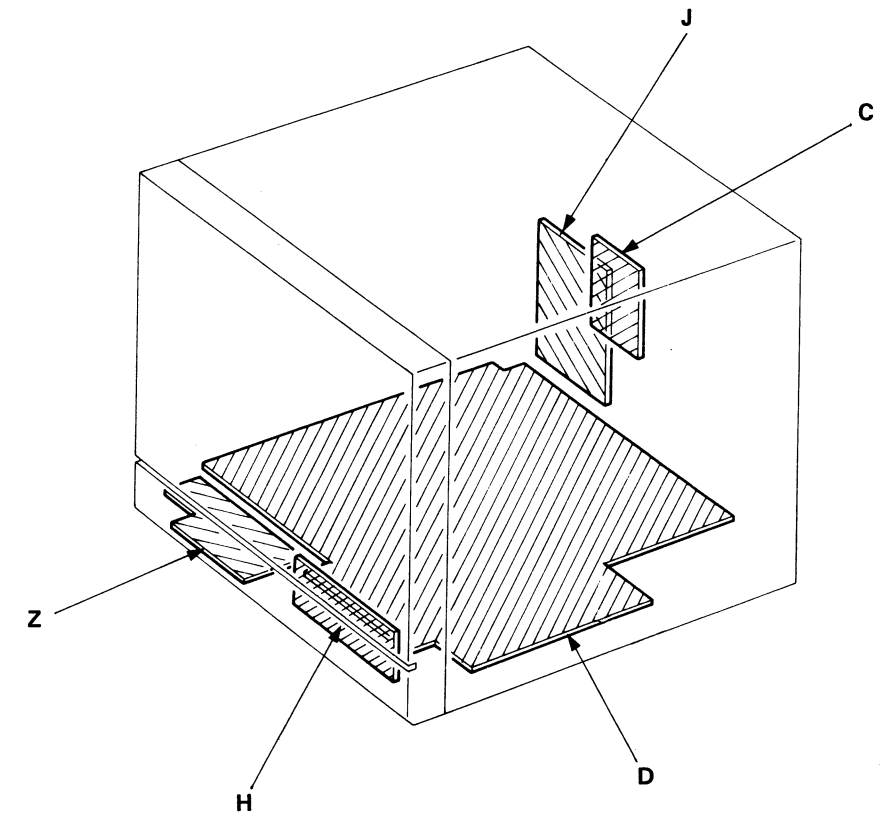
When replacing the following components, perform the adjustment as follows:

(D503, Q504, Q505, R500, R511, R524, R525, and R534)

- 1) Tune in an off-air signal.
  - 2) Set the BRIGHT and CONTRAST controls to a minimum.
  - 3) When RV601 is set to a maximum, check that the voltage of the +B line (Q601 emitter) is 12.8V or less.
  - 4) Short the emitter and collector of Q601.
  - 5) When a voltage of 12.0V to 12.9V is added to the Q601 collector using a DC stabilizing power supply, check that the hold-down circuit does not operate.
  - 6) When a  $14 \pm 0.5V$  voltage is added to the Q601 collector using a DC stabilizing power supply, check that the hold-down circuit operates.
- Note: As soon as the HV hold-down circuit operates, turn the power switch OFF.
- 7) If steps 5 and 6 are not satisfied, adjust the resistance value of R500 and repeat the above steps.

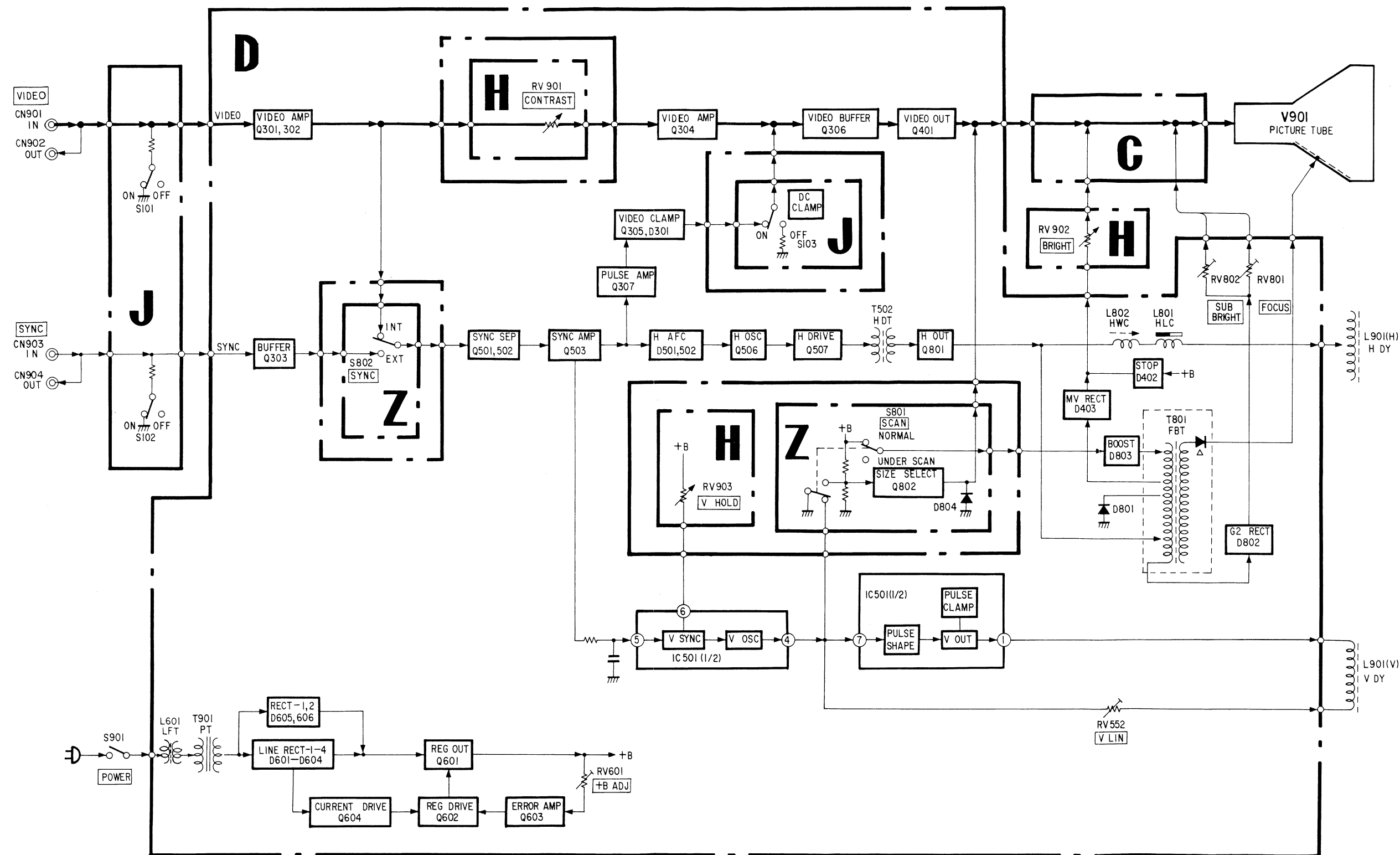
#### 4. DIAGRAMS AND CIRCUIT BOARD LOCATION

##### CIRCUIT BOARDS LOCATION

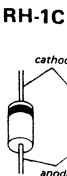
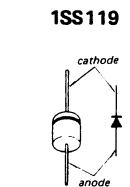
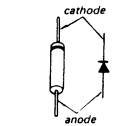
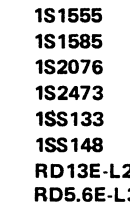
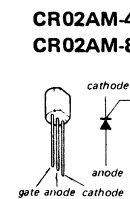
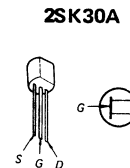
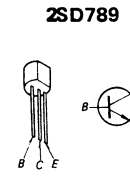
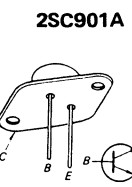
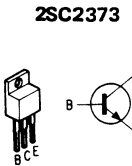
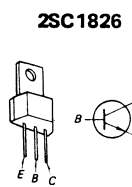
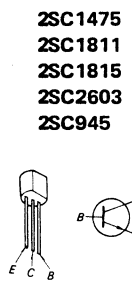
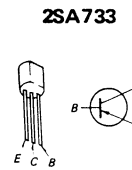
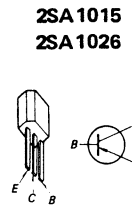
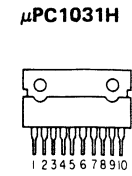




BLOCK DIAGRAM



SEMICONDUCTORS



SCHEMATIC DIAGRAM

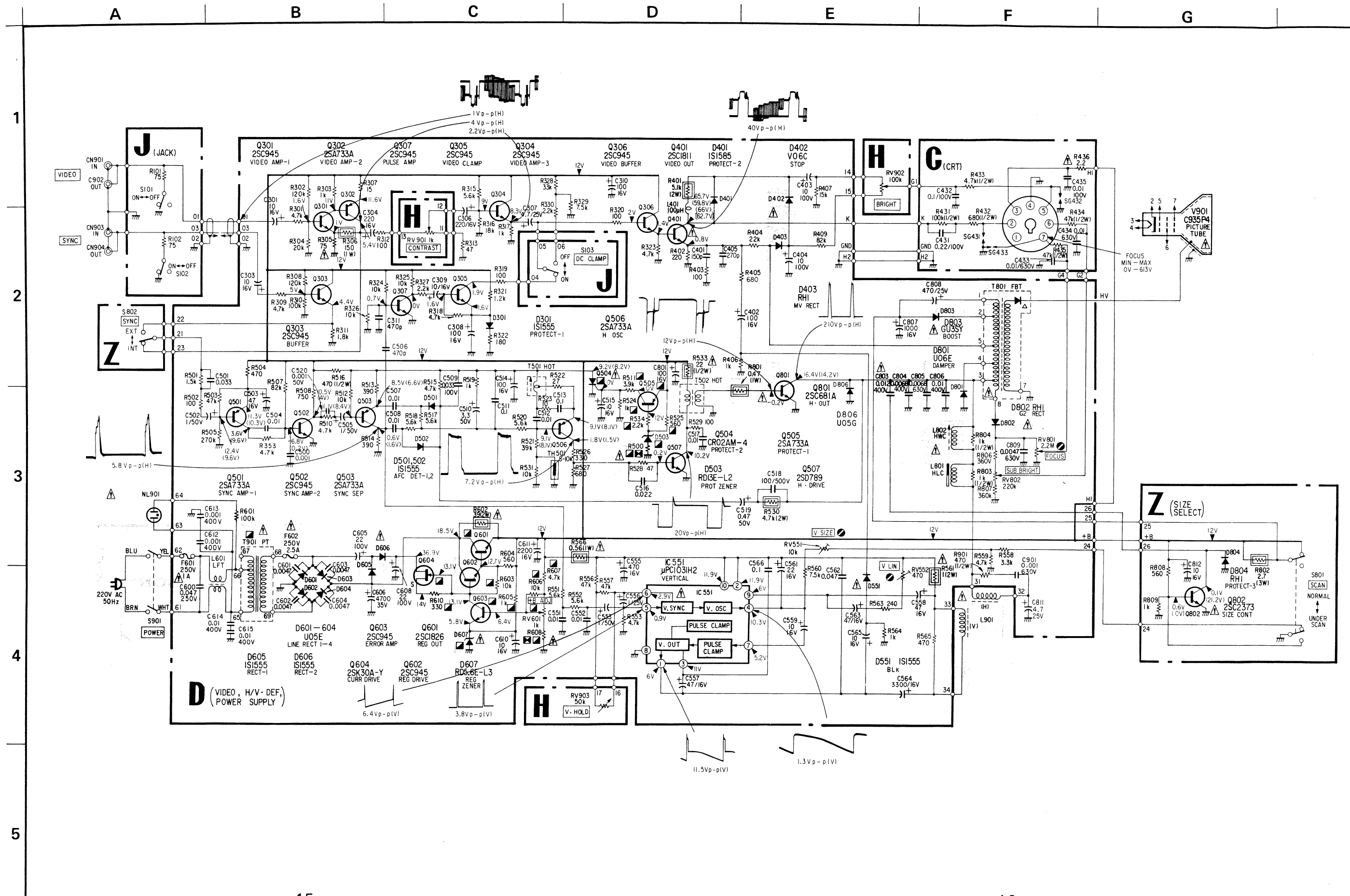
Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

- All capacitors are in  $\mu\text{F}$  unless otherwise noted.  $\text{pF}$ :  $\mu\mu\text{F}$  50WV or less are not indicated except for electrolytics.
  - All resistors are in ohms,  $\frac{1}{4}\text{W}$  unless otherwise noted.  $\text{k}\Omega = 1000\Omega$ ,  $\text{M}\Omega = 1000\text{k}\Omega$
  - : nonflamable resistor.
  - $\Delta$ : internal component.
  - : panel designation.
  - All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
  - The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
  - When replacing components identified by mark the necessary adjustments indicated. If results do not meet the specified value, change the component identified by and repeat the adjustment until the specified value is achieved.
- When replacing the part in below table, be sure to perform the related adjustment.

| Part replaced (  )  | Adjustment (  )            |
|---|----------------------------|
| D503, D607, Q504, Q505, Q601, Q603, Q604, R500, R511, R524, R525, R534, R603, R605, R606, R607, R608, R610, RV601, T901 | R500<br>R608<br>adjustment |

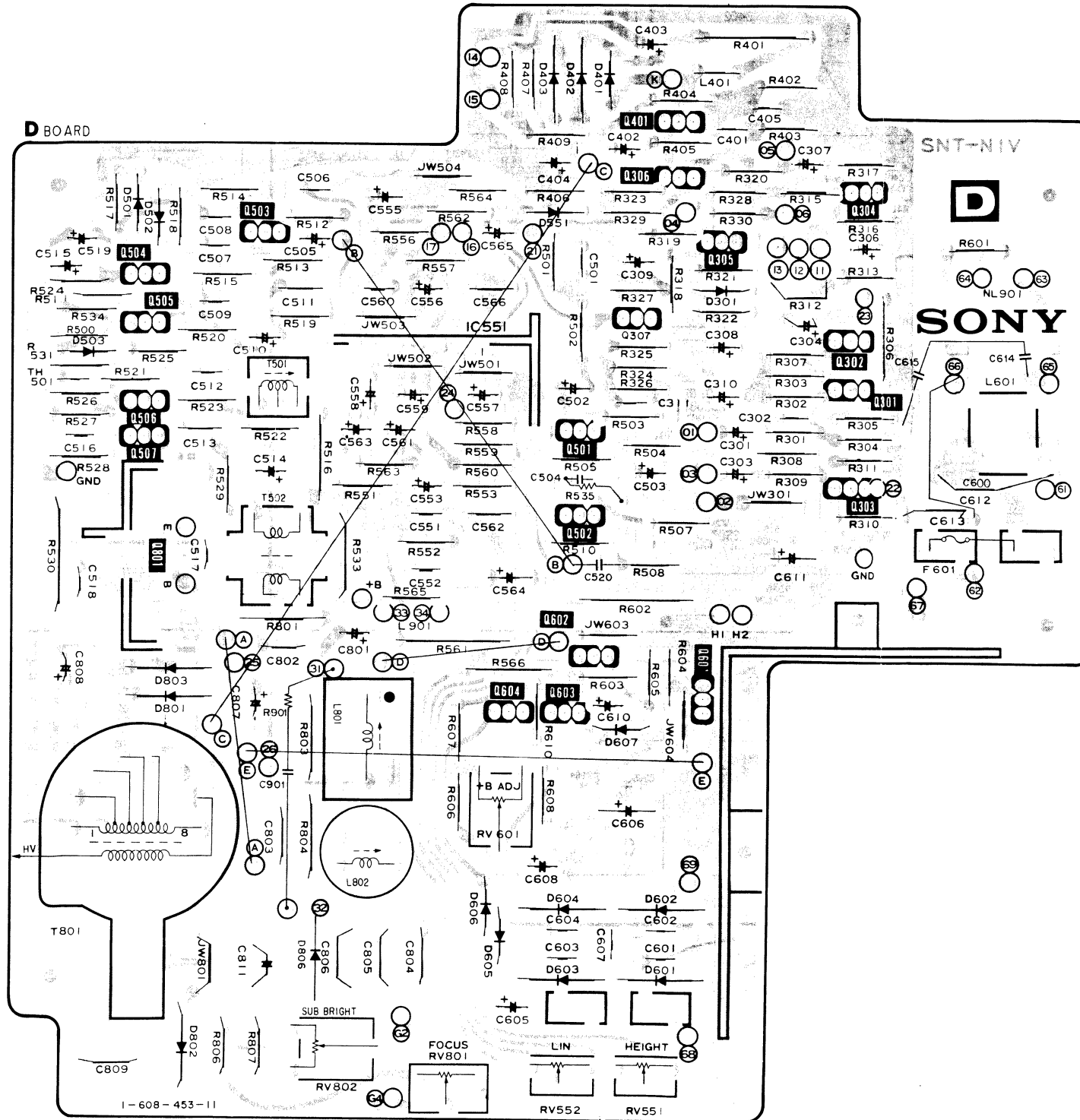
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a  $10\text{M}\Omega$  digital multimeter.
- : adjustable without removing cabinet.
- : adjustment for repair.
- Voltage variations may be noted due to normal production tolerances.
- : B + bus.

C D H J Z

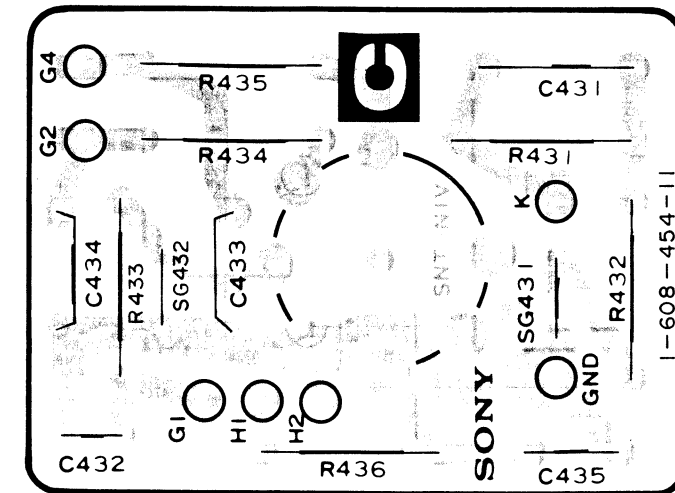


# PRINTED WIRING BOARD

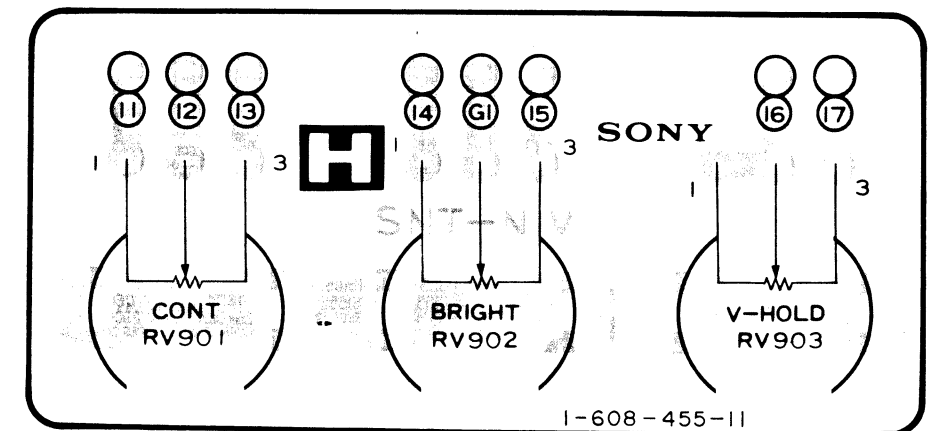
|             |                            |       |                     |                  |                  |             |     |
|-------------|----------------------------|-------|---------------------|------------------|------------------|-------------|-----|
| Q<br>I<br>C | 505504506<br>507801        | 503   | IC 551              | 401306305        | 302304<br>303301 | Q<br>I<br>C |     |
| D           | 503501502<br>801803<br>802 | 806   | 604606605<br>603604 | 502501<br>602607 | 301              | D           |     |
| ADJ         |                            | RV802 | RV801               | RV601            | RV552            | RV551       | ADJ |



C BOARD



H BOARD



**J** **Z**

A

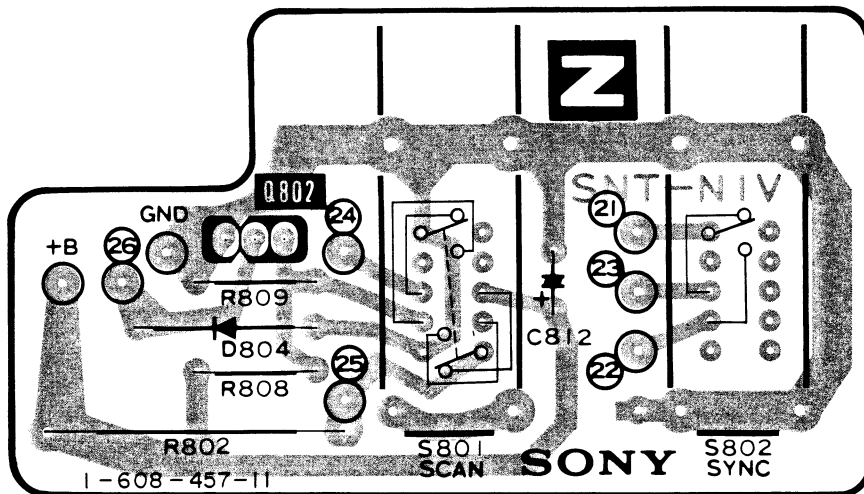
B

C

1

2

# **Z BOARD**

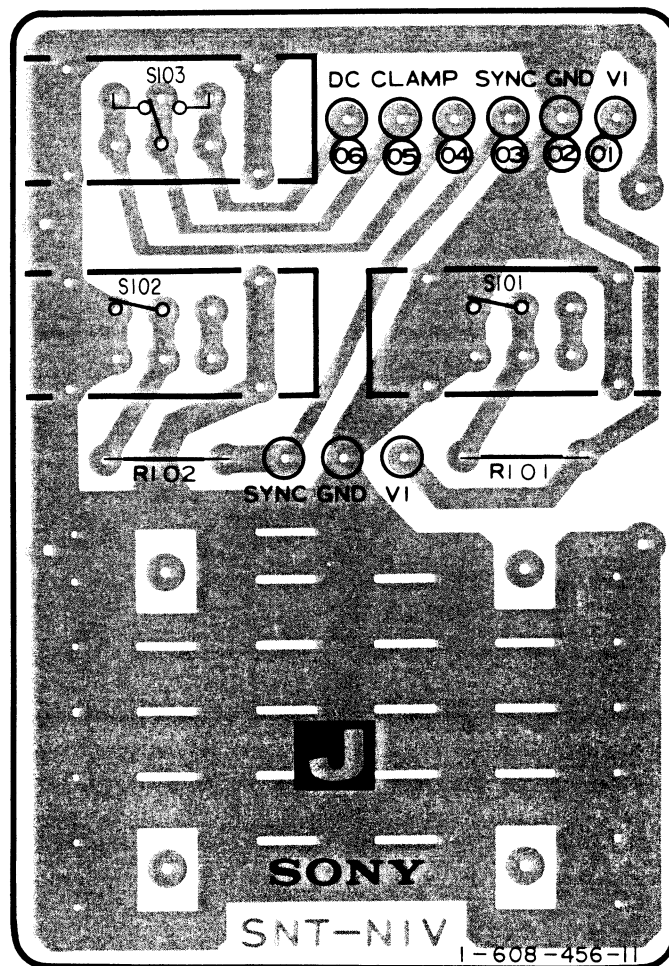


3

4

5

# **J BOARD**





## 5. EXPLODED VIEWS

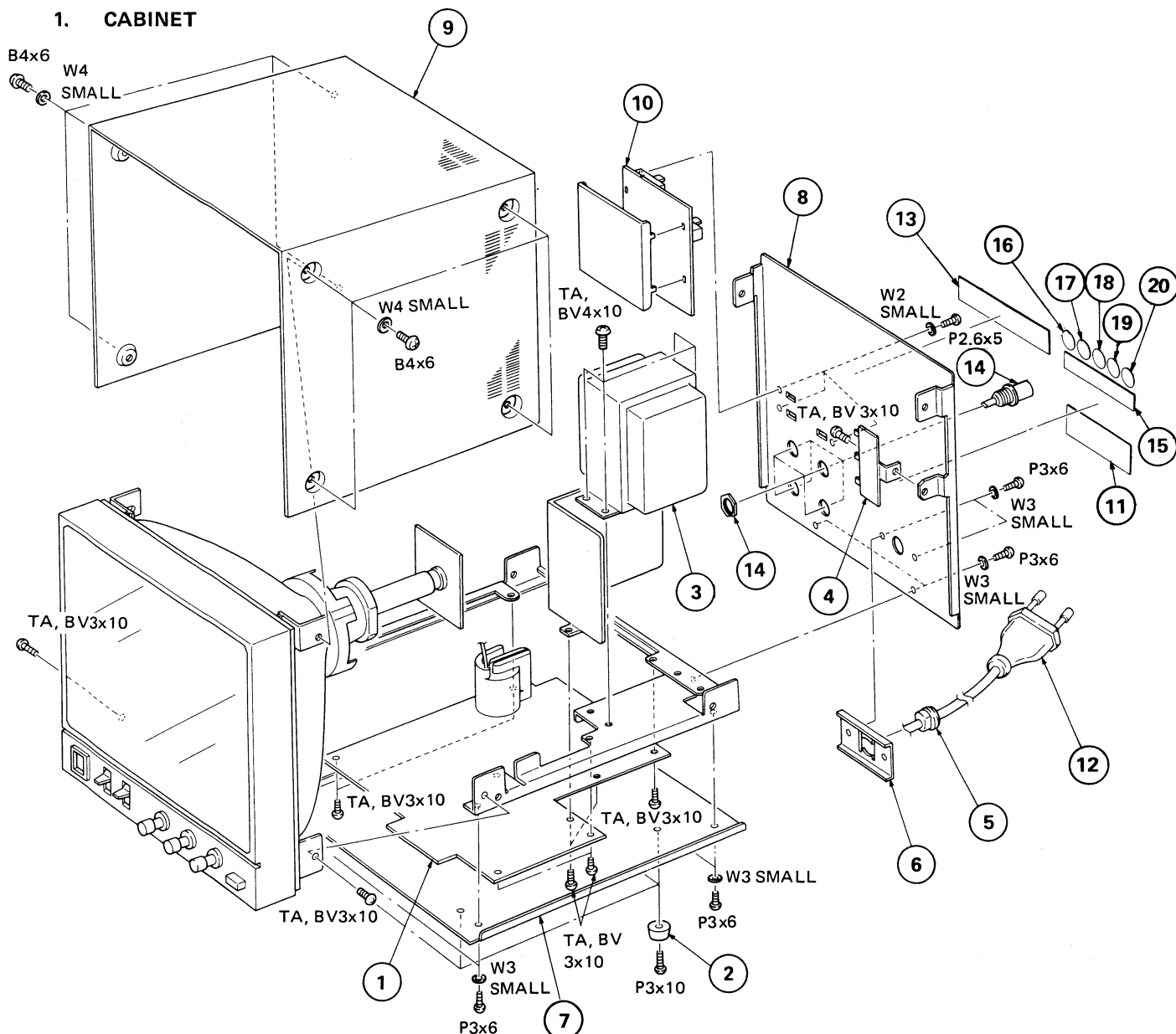
### NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

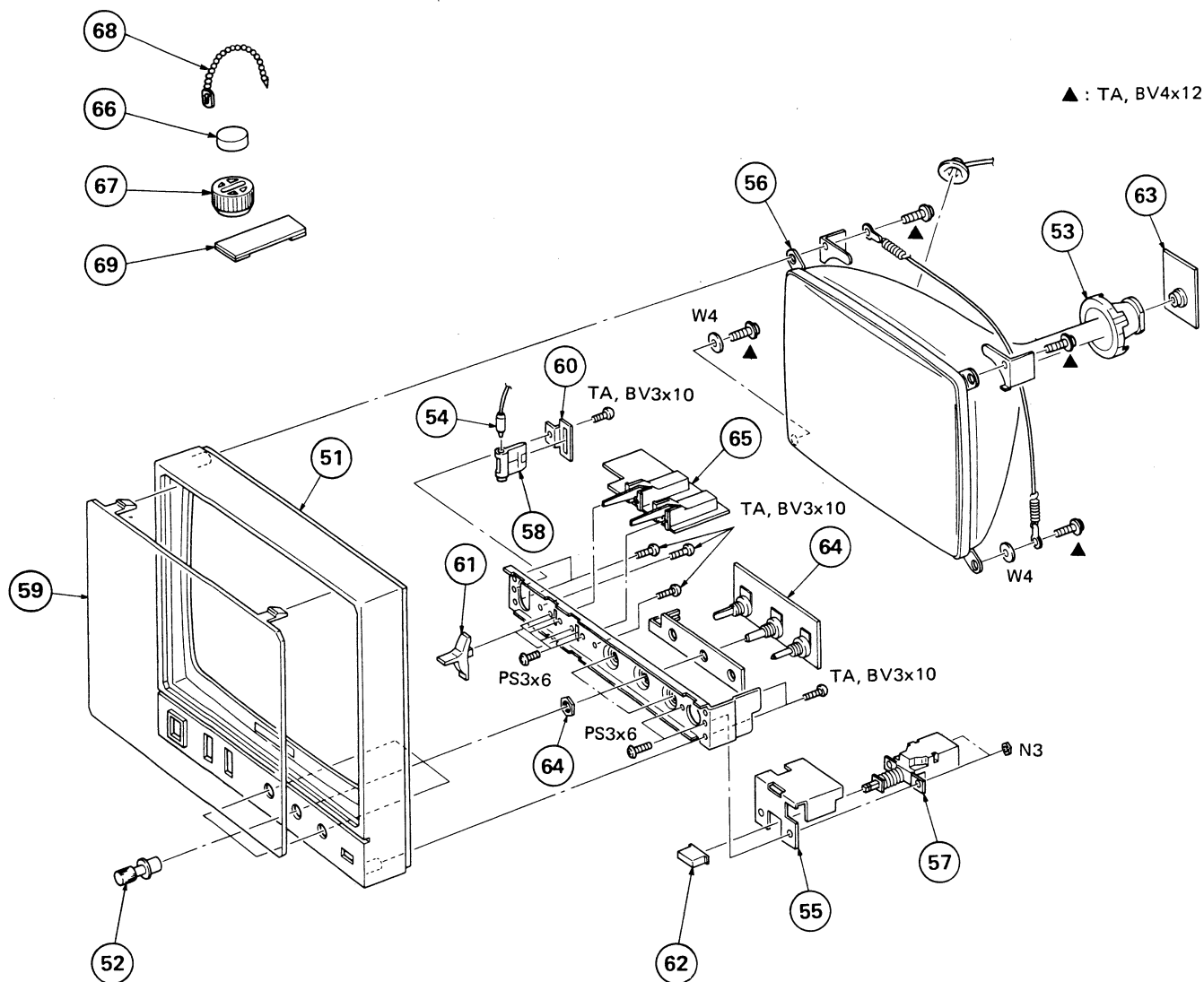
The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

### 1. CABINET



| No. | Part No        | Description            | Remark | No. | Part No        | Description                 | Remark |
|-----|----------------|------------------------|--------|-----|----------------|-----------------------------|--------|
| 1   | ▲:A-1340-485-A | D MOUNTED              |        | 11  | ▲:4-027-219-00 | LABEL, MODEL NUMBER (LARGE) |        |
| 2   | X-4861-312-0   | FOOT ASSY, MF          |        | 12  | ▲.1-534-820-XX | POWER CORD                  |        |
| 3   | ▲.1-447-427-00 | TRANSFORMER, POWER: PT |        | 13  | ▲:3-703-058-00 | LABEL, PTB EXEMPTION        |        |
| 4   | 1-536-392-XX   | L-TYPE TERMINAL STRIP  |        | 14  | 1-561-167-00   | CONNECTOR                   |        |
| 5   | ▲.3-005-073-00 | BUSHING                |        | 15  | 3-703-057-00   | LABEL, PTB EXEMPTION        |        |
| 6   | ▲:4-025-821-00 | HOLDER, BUSHING (CE)   |        | 16  | 3-703-269-00   | LABEL, SEV                  |        |
| 7   | ▲:4-027-213-00 | PLATE, BOTTOM          |        | 17  | 3-703-274-00   | LABEL, APPROVAL             |        |
| 8   | 4-027-214-00   | PANEL, REAR            |        | 18  | 4-310-379-00   | LABEL, NEMKO                |        |
| 9   | 4-027-217-00   | CABINET                |        | 19  | 4-310-380-00   | LABEL, DEMKO                |        |
| 10  | ▲:1-608-456-00 | J BOARD                |        | 20  | 4-310-381-00   | LABEL, SEMKO                |        |

## 2. BEZEL



| No.  | Part No      | Description            |
|------|--------------|------------------------|
| 51   | X-4027-202-0 | BEZEL ASSY             |
| 52   | X-4316-209-0 | KNOB ASSY, CONTROL     |
| 53 ▲ | 1-451-216-21 | DEFLECTION YOKE        |
| 54   | 1-519-108-XX | NEON LAMP ASSY         |
| 55 ▲ | 4-027-218-00 | BARRIER                |
| 56 ▲ | 1-546-046-00 | CATHODE-RAY TUBE (B/W) |
| 57 ▲ | 1-553-330-00 | SWITCH, PUSH (POWER)   |
| 58 ▲ | 4-027-202-00 | HOLDER, LAMP           |
| 59   | 4-027-212-00 | FILTER                 |
| 60 ▲ | 4-308-211-00 | HOLDER, NEON LAMP      |

| No.  | Part No      | Description                    | Remark |
|------|--------------|--------------------------------|--------|
| 61   | 4-335-954-02 | KNOB (2P), LEVER SWITCH        |        |
| 62   | 4-335-962-00 | PUSH BUTTON                    |        |
| 63 ▲ | 1-608-454-00 | C BOARD                        |        |
| 64 ▲ | 1-608-455-00 | H BOARD                        |        |
| 65 ▲ | 1-608-457-00 | Z BOARD                        |        |
| 66   | 1-452-032-00 | MAGNET, DISK; 10MM ϕ           |        |
| 67   | 1-452-094-00 | MAGNET, ROTATABLE DISK; 15MM ϕ |        |
| 68   | 4-308-870-00 | CLIP, LEAD WIRE                |        |
| 69   | X-4309-608-0 | PERMALLOY ASSY, CONVERGENCE    |        |

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.



NOTE:

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

- =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

## 6. ELECTRICAL PARTS LIST

- Items marked " **A** " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

### CAPACITORS

- MF :  $\mu$ F, PF :  $\mu$  $\mu$ F

### RESISTORS

- All resistors are in ohms
- F : nonflammable

### COILS

- MMH : mH, UH :  $\mu$ H


When indicating parts by reference number, please include the board name.

| Ref.No                                     | Part No        | Description     | Remark  |     |      | Ref.No | Part No        | Description | Remark   |     |      |
|--|----------------|-----------------|---------|-----|------|--------|----------------|-------------|----------|-----|------|
| A :1-608-454-00 C BOARD<br>*****           |                |                 |         |     |      | C511   | 1-108-849-00   | MYLAR       | 0.1MF    | 10% | 50V  |
| 1-526-521-XX SOCKET, ELECTRONIC TUBE       |                |                 |         |     |      | C512   | 1-108-837-00   | MYLAR       | 0.01MF   | 10% | 50V  |
| CAPACITOR                                  |                |                 |         |     |      | C513   | 1-108-849-00   | MYLAR       | 0.1MF    | 10% | 50V  |
| C431                                       | 1-108-393-00   | MYLAR           | 0.22MF  | 10% | 100V | C514   | 1-123-333-00   | ELECT       | 100MF    | 20% | 16V  |
| C432                                       | 1-108-389-00   | MYLAR           | 0.1MF   | 10% | 100V | C515   | 1-123-356-00   | ELECT       | 10MF     | 20% | 16V  |
| C433                                       | 1-129-714-00   | FILM            | 0.01MF  | 10% | 630V | C516   | 1-108-242-00   | MYLAR       | 0.022MF  | 10% | 50V  |
| C434                                       | 1-129-714-00   | FILM            | 0.01MF  | 10% | 630V | C517   | 1-108-837-00   | MYLAR       | 0.01MF   | 10% | 50V  |
| C435                                       | 1-108-377-00   | MYLAR           | 0.01MF  | 10% | 100V | C518   | 1-101-810-00   | CERAMIC     | 100PF    | 5%  | 500V |
| RESISTOR                                   |                |                 |         |     |      | C519   | 1-123-379-00   | ELECT       | 0.47MF   | 20% | 50V  |
| R431                                       | 1-202-621-00   | COMPOSITION     | 100K    | 5%  | 1/2W | C520   | 1-108-227-00   | MYLAR       | 0.001MF  | 10% | 50V  |
| R432                                       | 1-202-569-00   | COMPOSITION     | 680     | 5%  | 1/2W | C551   | 1-108-837-00   | MYLAR       | 0.01MF   | 10% | 50V  |
| R433                                       | 1-202-589-00   | COMPOSITION     | 4.7K    | 5%  | 1/2W | C552   | 1-108-837-00   | MYLAR       | 0.01MF   | 10% | 50V  |
| R434                                       | 1-202-613-00   | COMPOSITION     | 47K     | 5%  | 1/2W | C553   | 1-123-380-00   | ELECT       | 1MF      | 20% | 50V  |
| R435                                       | 1-202-613-00   | COMPOSITION     | 47K     | 5%  | 1/2W | C555   | 1-123-323-00   | ELECT       | 470MF    | 20% | 16V  |
| R436                                       | A.1-202-309-35 | COMPOSITION     | 2.2     | 10% | 1/4W | C556   | 1-131-498-51   | TANTALUM    | 1MF      | 20% | 25V  |
| SPARK GAP                                  |                |                 |         |     |      | C557   | 1-123-332-00   | ELECT       | 47MF     | 20% | 16V  |
| SG431                                      | 1-519-063-XX   | DISCHARGING GAP |         |     |      | C558   | 1-123-332-00   | ELECT       | 47MF     | 20% | 16V  |
| SG432                                      | 1-519-063-XX   | DISCHARGING GAP |         |     |      | C559   | 1-131-371-00   | TANTALUM    | 10MF     | 20% | 16V  |
| SG433                                      | 1-519-063-XX   | DISCHARGING GAP |         |     |      | C561   | 1-131-371-00   | TANTALUM    | 10MF     | 20% | 16V  |
| *****                                      |                |                 |         |     |      | C562   | 1-108-845-00   | MYLAR       | 0.047MF  | 10% | 50V  |
| A :A-1340-485-A D BOARD, COMPLETE<br>***** |                |                 |         |     |      | C563   | 1-123-332-00   | ELECT       | 47MF     | 20% | 16V  |
| CAPACITOR                                  |                |                 |         |     |      | C564   | 1-123-326-00   | ELECT       | 3300MF   | 20% | 16V  |
| C301                                       | 1-123-356-00   | ELECT           | 10MF    | 20% | 16V  | C565   | 1-123-325-00   | ELECT       | 10MF     | 20% | 16V  |
| C303                                       | 1-123-356-00   | ELECT           | 10MF    | 20% | 16V  | C566   | 1-108-849-00   | MYLAR       | 0.1MF    | 10% | 50V  |
| C304                                       | 1-123-321-00   | ELECT           | 220MF   | 20% | 16V  | C600   | 1-117-131-11   | PAPER       | 0.047MF  | 20% | 250V |
| C306                                       | 1-123-321-00   | ELECT           | 220MF   | 20% | 16V  | C601   | 1-101-006-00   | CERAMIC     | 0.047MF  |     | 50V  |
| C307                                       | 1-123-328-00   | ELECT           | 4.7MF   | 20% | 25V  | C602   | 1-101-006-00   | CERAMIC     | 0.047MF  |     | 50V  |
| C308                                       | 1-123-333-00   | ELECT           | 100MF   | 20% | 16V  | C603   | 1-101-006-00   | CERAMIC     | 0.047MF  |     | 50V  |
| C309                                       | 1-123-356-00   | ELECT           | 10MF    | 20% | 16V  | C604   | 1-101-006-00   | CERAMIC     | 0.047MF  |     | 50V  |
| C310                                       | 1-123-333-00   | ELECT           | 100MF   | 20% | 16V  | C605   | 1-123-385-00   | ELECT       | 22MF     | 20% | 100V |
| C311                                       | 1-102-836-00   | CERAMIC         | 470PF   | 10% | 50V  | C606   | 1-123-738-00   | ELECT       | 4700MF   | 20% | 35V  |
| C401                                       | 1-102-108-00   | CERAMIC         | 150PF   | 10% | 50V  | C608   | 1-123-385-00   | ELECT       | 22MF     | 20% | 100V |
| C402                                       | 1-123-333-00   | ELECT           | 100MF   | 20% | 16V  | C610   | 1-123-356-00   | ELECT       | 10MF     | 20% | 16V  |
| C403                                       | 1-123-384-00   | ELECT           | 10MF    | 20% | 100V | C611   | 1-123-325-00   | ELECT       | 2200MF   | 20% | 16V  |
| C404                                       | 1-123-384-00   | ELECT           | 10MF    | 20% | 100V | C612   | 1-161-737-00   | CERAMIC     | 0.001MF  | 20% | 400V |
| C405                                       | 1-102-111-00   | CERAMIC         | 270PF   | 10% | 50V  | C613   | 1-161-737-00   | CERAMIC     | 0.001MF  | 20% | 400V |
| C500                                       | 1-108-227-00   | MYLAR           | 0.001MF | 10% | 50V  | C614   | 1-161-737-00   | CERAMIC     | 0.01MF   | 20% | 400V |
| C501                                       | 1-108-244-00   | MYLAR           | 0.033MF | 10% | 50V  | C615   | 1-161-737-00   | CERAMIC     | 0.01MF   | 20% | 400V |
| C502                                       | 1-123-380-00   | ELECT           | 1MF     | 20% | 50V  | C801   | 1-123-333-00   | ELECT       | 100MF    | 20% | 16V  |
| C503                                       | 1-123-332-00   | ELECT           | 47MF    | 20% | 16V  | C803 A | 1-130-951-00   | FILM        | 0.012MF  | 3%  | 400V |
| C504                                       | 1-108-837-00   | MYLAR           | 0.01MF  | 10% | 50V  | C804 A | 1-130-953-00   | FILM        | 0.0068MF | 3%  | 400V |
| C505                                       | 1-123-380-00   | ELECT           | 1MF     | 20% | 50V  | C805 A | 1-129-712-00   | FILM        | 0.0068MF | 10% | 630V |
| C506                                       | 1-102-836-00   | CERAMIC         | 470PF   | 10% | 50V  | C806 A | 1-130-951-00   | FILM        | 0.012MF  | 3%  | 400V |
| C507                                       | 1-108-837-00   | MYLAR           | 0.01MF  | 10% | 50V  | C807   | 1-123-324-00   | ELECT       | 1000MF   | 20% | 16V  |
| C508                                       | 1-108-837-00   | MYLAR           | 0.01MF  | 10% | 50V  | C808   | 1-123-989-00   | ELECT       | 470MF    | 20% | 25V  |
| C509                                       | 1-108-383-00   | MYLAR           | 0.033MF | 10% | 100V | C809   | 1-129-710-00   | FILM        | 0.0047MF | 10% | 630V |
| C510                                       | 1-123-382-00   | ELECT           | 3.3MF   | 20% | 50V  | C811   | 1-123-908-00   | ELECT       | 4.7MF    | 20% | 25V  |
|  |                |                 |         |     |      | C901   | 1-129-702-00   | FILM        | 0.001MF  | 10% | 630V |
|  |                |                 |         |     |      | DIODE  |                |             |          |     |      |
| C506                                       | 1-102-836-00   | CERAMIC         | 470PF   | 10% | 50V  | D301   | =>8-719-911-19 | DIODE       | 1SS119   |     |      |
| C507                                       | 1-108-837-00   | MYLAR           | 0.01MF  | 10% | 50V  | D401   | 8-719-815-85   | DIODE       | 1S1585   |     |      |
| C508                                       | 1-108-837-00   | MYLAR           | 0.01MF  | 10% | 50V  | D402 A | 8-719-900-63   | DIODE       | V06C     |     |      |
| C509                                       | 1-108-383-00   | MYLAR           | 0.033MF | 10% | 100V | D403 A | 8-719-300-74   | DIODE       | RH1      |     |      |
| C510                                       | 1-123-382-00   | ELECT           | 3.3MF   | 20% | 50V  | D501   | =>8-719-911-19 | DIODE       | 1SS119   |     |      |

**D**

| Ref.No            | Part No      | Description                         | Remark | Ref.No          | Part No      | Description         | Remark |
|-------------------|--------------|-------------------------------------|--------|-----------------|--------------|---------------------|--------|
| D502 =>           | 8-719-911-19 | DIODE 1SS119                        |        | <u>RESISTOR</u> |              |                     |        |
| D503 =>           | 8-719-101-86 | DIODE RD13E-L2                      |        | R301            | 1-246-489-00 | CARBON 4.7K 5% 1/4W |        |
| D551 △            | 8-719-815-55 | DIODE 1S1555                        |        | R302            | 1-246-523-00 | CARBON 120K 5% 1/4W |        |
| D601 △            | 8-719-911-54 | DIODE U05E                          |        | R303            | 1-246-473-00 | CARBON 1K 5% 1/4W   |        |
| D602 △            | 8-719-911-54 | DIODE U05E                          |        | R304            | 1-246-504-00 | CARBON 20K 5% 1/4W  |        |
| D603 △            | 8-719-911-54 | DIODE U05E                          |        | R305 △          | 1-246-446-00 | CARBON 75 5% 1/4W   |        |
| D604 △            | 8-719-911-54 | DIODE U05E                          |        | R306            | 1-213-133-00 | METAL 150 5% 1W     | F      |
| D605 △            | 8-719-815-55 | DIODE 1S1555                        |        | R307            | 1-246-429-00 | CARBON 15 5% 1/4W   |        |
| D606 △            | 8-719-815-55 | DIODE 1S1555                        |        | R308            | 1-246-523-00 | CARBON 120K 5% 1/4W |        |
| D607 △            | 8-719-101-59 | DIODE RD5.6E-L3                     |        | R309            | 1-246-489-00 | CARBON 4.7K 5% 1/4W |        |
| D801 =>           | 8-719-911-55 | DIODE U05G                          |        | R310            | 1-246-521-00 | CARBON 100K 5% 1/4W |        |
| D802 △            | 8-719-300-76 | DIODE RH1                           |        | R311            | 1-246-479-00 | CARBON 1.8K 5% 1/4W |        |
| D803 △            | 8-719-300-00 | DIODE GU3SY                         |        | R312            | 1-246-449-00 | CARBON 100 5% 1/4W  |        |
| D806              | 8-719-911-55 | DIODE U05G                          |        | R313            | 1-246-441-00 | CARBON 47 5% 1/4W   |        |
| <u>FUSE</u>       |              |                                     |        | R315            | 1-246-491-00 | CARBON 5.6K 5% 1/4W |        |
| F601 △            | 1-532-078-00 | FUSE, TIME-LAG: 250V 1A             |        | R316            | 1-246-503-00 | CARBON 18K 5% 1/4W  |        |
| △                 | 1-533-087-00 | HOLDER, FUSE (F601)                 |        | R317            | 1-246-473-00 | CARBON 1K 5% 1/4W   |        |
| F602 △            | 1-532-286-00 | FUSE, TIME-LAG: 250V 2.5A           |        | R318            | 1-246-489-00 | CARBON 4.7K 5% 1/4W |        |
| △                 | 1-533-087-00 | HOLDER, FUSE (F602)                 |        | R319            | 1-246-449-00 | CARBON 100 5% 1/4W  |        |
| <u>IC</u>         |              |                                     |        | R320            | 1-246-449-00 | CARBON 100 5% 1/4W  |        |
| IC551 △           | 8-759-110-31 | IC UPC1031H2                        |        | R321            | 1-246-475-00 | CARBON 1.2K 5% 1/4W |        |
| <u>COIL</u>       |              |                                     |        | R322            | 1-246-455-00 | CARBON 180 5% 1/4W  |        |
| L401 △            | 1-407-705-00 | MICRO INDUCTOR 100UH                |        | R323            | 1-246-489-00 | CARBON 4.7K 5% 1/4W |        |
| L601              | 1-441-855-00 | TRANSFORMER, HEATER INSULATION: LFT |        | R324            | 1-246-497-00 | CARBON 10K 5% 1/4W  |        |
| L801 △            | 1-459-427-00 | COIL, HORIZONTAL LINEARITY,HLC      |        | R325            | 1-246-497-00 | CARBON 10K 5% 1/4W  |        |
| L802 △            | 1-459-330-12 | RES, VAR (HWC)                      |        | R326            | 1-246-497-00 | CARBON 10K 5% 1/4W  |        |
| <u>TRANSISTOR</u> |              |                                     |        | R327            | 1-246-481-00 | CARBON 2.2K 5% 1/4W |        |
| Q301 =>           | 8-729-606-32 | TRANSISTOR 2SC2603                  |        | R328            | 1-246-509-00 | CARBON 33K 5% 1/4W  |        |
| Q302 =>           | 8-729-201-52 | TRANSISTOR 2SA1015                  |        | R329            | 1-246-494-00 | CARBON 7.5K 5% 1/4W |        |
| Q303 =>           | 8-729-606-32 | TRANSISTOR 2SC2603                  |        | R330            | 1-246-481-00 | CARBON 2.2K 5% 1/4W |        |
| Q304 =>           | 8-729-606-32 | TRANSISTOR 2SC2603                  |        | R401 △          | 1-206-681-00 | METAL 5.1K 5% 2W    | F      |
| Q305 =>           | 8-729-606-32 | TRANSISTOR 2SC2603                  |        | R402            | 1-246-457-00 | CARBON 220 5% 1/4W  |        |
| Q306 =>           | 8-729-606-32 | TRANSISTOR 2SC2603                  |        | R403            | 1-246-449-00 | CARBON 100 5% 1/4W  |        |
| Q307 =>           | 8-729-606-32 | TRANSISTOR 2SC2603                  |        | R404            | 1-246-505-00 | CARBON 22K 5% 1/4W  |        |
| Q401 △            | 8-765-012-20 | TRANSISTOR 2SC1811                  |        | R405            | 1-246-469-00 | CARBON 680 5% 1/4W  |        |
| Q501 =>           | 8-729-201-52 | TRANSISTOR 2SA1015                  |        | R406            | 1-246-473-00 | CARBON 1K 5% 1/4W   |        |
| Q502 =>           | 8-729-606-32 | TRANSISTOR 2SC2603                  |        | R407            | 1-246-501-00 | CARBON 15K 5% 1/4W  |        |
| Q503 =>           | 8-729-201-52 | TRANSISTOR 2SA1015                  |        | R409            | 1-246-519-00 | CARBON 82K 5% 1/4W  |        |
| Q504 △            | 8-719-000-24 | THYRISTOR CRO2AM-4                  |        | △R500 △         |              | CARBON              |        |
| Q505 =>           | 8-729-201-52 | TRANSISTOR 2SA1015                  |        | R501            | 1-246-477-00 | CARBON 1.5K 5% 1/4W |        |
| Q506 =>           | 8-729-201-52 | TRANSISTOR 2SA1015                  |        | R502            | 1-246-449-00 | CARBON 100 5% 1/4W  |        |
| Q507 △            | 8-729-378-43 | TRANSISTOR 2SD789                   |        | R503            | 1-246-513-00 | CARBON 47K 5% 1/4W  |        |
| Q601 △            | 8-729-382-63 | TRANSISTOR 2SC1826                  |        | R504            | 1-246-465-00 | CARBON 470 5% 1/4W  |        |
| Q602 △            | 8-729-194-56 | TRANSISTOR 2SC945                   |        | R505            | 1-246-531-00 | CARBON 270K 5% 1/4W |        |
| Q603 =>           | 8-729-606-32 | TRANSISTOR 2SC2603                  |        | R506            | 1-246-483-00 | CARBON 2.7K 5% 1/4W |        |
| Q604 △            | 8-729-203-02 | TRANSISTOR 2SK30A                   |        | R507            | 1-246-519-00 | CARBON 82K 5% 1/4W  |        |
| Q801 △            | 1-806-308-00 | TRANSISTOR 2SC681A                  |        | R508            | 1-246-470-00 | CARBON 750 5% 1/4W  |        |
|                   |              |                                     |        | R509            | 1-246-499-00 | CARBON 12K 5% 1/4W  |        |
|                   |              |                                     |        | R510            | 1-246-473-00 | CARBON 1K 5% 1/4W   |        |
|                   |              |                                     |        | R511            | 1-246-487-00 | CARBON 3.9K 5% 1/4W |        |
|                   |              |                                     |        | R512            | 1-246-497-00 | CARBON 10K 5% 1/4W  |        |
|                   |              |                                     |        | R513            | 1-246-463-00 | CARBON 390 5% 1/4W  |        |

When indicating parts by reference number, please include the board name.

- The components identified by  in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

The components identified by shading and mark △ are critical for safety. Replace only with part number specified.

| Ref.No                   | Part No      | Description           | Remark       | Ref.No                   | Part No        | Description                        | Remark |
|--------------------------|--------------|-----------------------|--------------|--------------------------|----------------|------------------------------------|--------|
| R514                     | 1-246-463-00 | CARBON                | 390 5% 1/4W  | <u>TRANSFORMER</u>       |                |                                    |        |
| R515                     | 1-246-489-00 | CARBON                | 4.7K 5% 1/4W | T501                     | 1-405-760-00   | COIL, OSC: HOT                     |        |
| R516                     | 1-244-865-00 | CARBON                | 470 5% 1/2W  | T502                     | 1-437-021-00   | TRANSFORMER, HORIZONTAL DRIVE: HDT |        |
| R517                     | 1-246-491-00 | CARBON                | 5.6K 5% 1/4W | T801                     | 1-439-298-00   | TRANSFORMER ASSY, FLYBACK: FBT     |        |
| R518                     | 1-246-491-00 | CARBON                | 5.6K 5% 1/4W | <u>THERMISTOR</u>        |                |                                    |        |
| R519                     | 1-246-473-00 | CARBON                | 1K 5% 1/4W   | TH501                    | 1-800-202-XX   | THERMISTOR S-10K                   |        |
| R520                     | 1-246-491-00 | CARBON                | 5.6K 5% 1/4W | *****                    |                |                                    |        |
| R521                     | 1-246-511-00 | CARBON                | 39K 5% 1/4W  | ♣:1-608-455-00           | H.BOARD        | *****                              |        |
| R522                     | 1-246-435-00 | CARBON                | 27 5% 1/4W   | <u>VARIABLE RESISTOR</u> |                |                                    |        |
| R523                     | 1-246-425-00 | CARBON                | 10 5% 1/4W   | RV901                    | 1-228-771-00   | RES, VAR, CARBON 1K                |        |
| R524                     | 1-246-473-00 | CARBON                | 1K 5% 1/4W   | RV902                    | 1-228-773-00   | RES, VAR, CARBON 100K              |        |
| R525                     | 1-246-467-00 | CARBON                | 560 5% 1/4W  | RV903                    | 1-228-772-00   | RES, VAR, CARBON 50K               |        |
| R526                     | 1-246-461-00 | CARBON                | 330 5% 1/4W  | *****                    |                |                                    |        |
| R527                     | 1-246-469-00 | CARBON                | 680 5% 1/4W  | ♣:1-608-456-00           | J BOARD        | *****                              |        |
| R528                     | 1-246-441-00 | CARBON                | 47 5% 1/4W   | <u>RESISTOR</u>          |                |                                    |        |
| R529                     | 1-246-449-00 | CARBON                | 100 5% 1/4W  | R101                     | 1-246-446-00   | CARBON 75 5% 1/4W                  |        |
| R530                     | 1-206-680-00 | METAL                 | 4.7K 5% 2W F | R102                     | 1-246-446-00   | CARBON 75 5% 1/4W                  |        |
| R531                     | 1-246-497-00 | CARBON                | 10K 5% 1/4W  | <u>SWITCH</u>            |                |                                    |        |
| R533                     | 1-211-598-00 | CARBON                | 22 5% 1/2W F | S101                     | 1-516-576-00   | SLIDE SWITCH                       |        |
| R534                     | 1-246-481-00 | CARBON                | 2.2K 5% 1/4W | S102                     | 1-516-576-00   | SLIDE SWITCH                       |        |
| R535                     | 1-246-489-00 | CARBON                | 4.7K 5% 1/4W | S103                     | 1-516-576-00   | SLIDE SWITCH                       |        |
| R551                     | 1-246-491-00 | CARBON                | 5.6K 5% 1/4W | *****                    |                |                                    |        |
| R552                     | 1-246-491-00 | CARBON                | 5.6K 5% 1/4W | ♣:1-608-457-00           | Z BOARD        | *****                              |        |
| R553                     | 1-246-489-00 | CARBON                | 4.7K 5% 1/4W | <u>CAPACITOR</u>         |                |                                    |        |
| R556                     | 1-246-513-00 | CARBON                | 47K 5% 1/4W  | C812                     | 1-123-356-00   | ELECT 10MF 20% 16V                 |        |
| R557                     | 1-246-513-00 | CARBON                | 47K 5% 1/4W  | <u>DIODE</u>             |                |                                    |        |
| R558                     | 1-246-485-00 | CARBON                | 3.3K 5% 1/4W | D804                     | 1-8-719-300-74 | DIODE RH1                          |        |
| R559                     | 1-246-489-00 | CARBON                | 4.7K 5% 1/4W | <u>TRANSISTOR</u>        |                |                                    |        |
| R560                     | 1-246-494-00 | CARBON                | 7.5K 5% 1/4W | Q802                     | 1-8-729-137-32 | TRANSISTOR 2SC2373                 |        |
| R561                     | 1-206-439-00 | METAL                 | 1 5% 2W F    | <u>RESISTOR</u>          |                |                                    |        |
| R563                     | 1-246-458-00 | CARBON                | 240 5% 1/4W  | R802                     | 1-206-497-61   | METAL 2.7 5% 3W F                  |        |
| R564                     | 1-246-473-00 | CARBON                | 1K 5% 1/4W   | R808                     | 1-246-467-00   | CARBON 560 5% 1/4W                 |        |
| R565                     | 1-246-465-00 | CARBON                | 470 5% 1/4W  | R809                     | 1-246-473-00   | CARBON 1K 5% 1/4W                  |        |
| R566                     | 1-212-357-61 | METAL                 | 0.56 5% 1W F | <u>SWITCH</u>            |                |                                    |        |
| R601                     | 1-246-521-00 | CARBON                | 100K 5% 1/4W | S801                     | 1-552-897-00   | SWITCH, LEVER                      |        |
| R602                     | 1-206-477-00 | METAL                 | 39 5% 2W F   |                          |                |                                    |        |
| R603                     | 1-246-497-00 | CARBON                | 10K 5% 1/4W  |                          |                |                                    |        |
| R604                     | 1-246-467-00 | CARBON                | 560 5% 1/4W  |                          |                |                                    |        |
| R605                     | 1-246-473-00 | CARBON                | 1K 5% 1/4W   |                          |                |                                    |        |
| R606                     | 1-246-497-00 | CARBON                | 10K 5% 1/4W  |                          |                |                                    |        |
| R607                     | 1-246-489-00 | CARBON                | 4.7K 5% 1/4W |                          |                |                                    |        |
| ☒ R608                   |              | CARBON                | 1/4W         |                          |                |                                    |        |
| R610                     | 1-246-461-00 | CARBON                | 330 5% 1/4W  |                          |                |                                    |        |
| R801                     | 1-212-356-00 | METAL                 | 0.47 5% 1W F |                          |                |                                    |        |
| R803                     | 1-244-873-00 | CARBON                | 1K 5% 1/2W   |                          |                |                                    |        |
| R804                     | 1-244-873-00 | CARBON                | 1K 5% 1/2W   |                          |                |                                    |        |
| R806                     | 1-246-534-00 | CARBON                | 360K 5% 1/4W |                          |                |                                    |        |
| R807                     | 1-246-534-00 | CARBON                | 360K 5% 1/4W |                          |                |                                    |        |
| R901                     | 1-202-565-00 | COMPOSITION           | 470 5% 1/4W  |                          |                |                                    |        |
| <u>VARIABLE RESISTOR</u> |              |                       |              |                          |                |                                    |        |
| RV551                    | 1-226-100-00 | RES, ADJ, CARBON 10K  |              |                          |                |                                    |        |
| RV552                    | 1-224-965-00 | RES, ADJ, CARBON 470  |              |                          |                |                                    |        |
| RV601                    | 1-226-819-00 | RES, ADJ, CARBON 1K   |              |                          |                |                                    |        |
| RV801                    | 1-226-263-00 | RES, ADJ, CARBON 2.2M |              |                          |                |                                    |        |
| RV802                    | 1-224-551-00 | RES, ADJ, CARBON 220K |              |                          |                |                                    |        |

• The components identified by ☒ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

When indicating parts by reference number, please include the board name.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

**Z**

| Ref.No | Part No      | Description   | Remark |
|--------|--------------|---------------|--------|
| S802   | 1-552-897-00 | SWITCH, LEVER |        |

\*\*\*\*\*

MISCELLANEOUS  
\*\*\*\*\*

△.1-534-820-XX POWER CORD  
1-536-392-XX L-TYPE TERMINAL STRIP  
1-561-167-00 CONNECTOR  
1-452-032-00 MAGNET, DISK; 10MM ϕ  
1-452-094-00 MAGNET, ROTATABLE DISK; 15MM ϕ

L901 △.1-451-216-21 DEFLECTION YOKE H,V  
NL901 △.1-519-108-XX NEON LAMP ASSY  
S901 △.1-553-330-00 SWITCH, PUSH (POWER)  
T901 △.1-447-427-00 TRANSFORMER, POWER: PT  
V901 △.1-546-046-00 CATHODE-RAY TUBE (B/W)

\*\*\*\*\*

ACCESSORIES AND PACKING MATERIALS  
\*\*\*\*\*

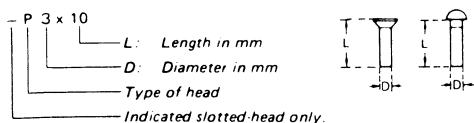
4-493-695-11 MANUAL, INSTRUCTION  
3-701-629-00 BAG, POLYETHYLENE  
4-027-221-00 CUSHION  
4-027-222-00 INDIVIDUAL CARTON  
4-309-407-00 BAG, POLYETHYLENE

When indicating parts by reference number, please include the board name.

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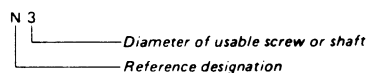
## HARDWARE NOMENCLATURE

Screw:



Unless otherwise indicated, it means cross-recessed head (Phillips type).

Nut, Washer, Retaining ring:



| Reference Designation | Shape | Description                                 | Remarks  |
|-----------------------|-------|---|--|
| <b>SCREWS</b>         |       |   |  |
| P                     |       | pan-head screw                              | binding-head (B) screw for replacement                             |
| PWH                   |       | pan-head screw with washer face             | binding-head (B) screw and flat washer for replacement             |
| PS<br>PSP             |       | pan-head screw with spring washer           | binding-head (B) screw and spring washer for replacement           |
| PSW<br>PSPW           |       | pan-head screw with spring and flat washers | binding-head (B) screw and spring and flat washers for replacement |
| R                     |       | round-head screw                            | binding-head (B) screw for replacement                             |
| K                     |       | flat-countersunk-head screw                 |  |
| RK                    |       | oval-countersunk-head screw                 |  |
| B                     |       | binding-head screw                          |  |
| T                     |       | truss-head screw                            | binding-head (B) screw for replacement                             |
| F                     |       | flat-fillister-head screw                   |  |
| RF                    |       | fillister-head screw                        |  |
| BV                    |       | brazier-head screw                          |  |

| Reference Designation      | Shape | Description                                    | Remarks   |
|----------------------------|-------|--|---|
| <b>SELF-TAPPING SCREWS</b> |       |  |   |
| TA                         |       | self-tapping screw                             | ex: TA, P 3 x 10  |
| PTP                        |       | pan-head self-tapping screw                    | binding-head self-tapping (TA, B) screw for replacement                 |
| PTPWH                      |       | pan-head self-tapping screw with washer face   | binding-head self-tapping (TA, B) screw and flat washer for replacement |
| PTTWH                      |       | pan-head thread-rolling screw with washer face | binding-head (B) screw and flat washer for replacement                  |
| <b>SET SCREWS</b>          |       |  |   |
| SC                         |       | set screw                                      |   |
| SC                         |       | hexagon-socket set screw                       | ex: SC 2 6 x 4, hexagon socket  |
| <b>NUT</b>                 |       |  |   |
| N                          |       | nut  |   |
| <b>WASHERS</b>             |       |  |   |
| W                          |       | flat washer                                    |   |
| SW                         |       | spring washer                                  |   |
| LW                         |       | internal-tooth lock washer                     | ex: LW3, internal   |
| LW                         |       | external-tooth lock washer                     | ex: LW3, external   |
| <b>RETAINING RINGS</b>     |       |  |   |
| E                          |       | retaining ring                                 |   |
| G                          |       | grip-type retaining ring                       |   |

EXPLODED VIEW  
**PVM-91CE**

SP0572  
**SONY®  
SERVICE MANUAL**

*AEP Model*  
*Serial No: 25201 and later*

## **SUPPLEMENT-1**

File this supplement with the service manual.

### **INTRODUCTION**

1. The CRT and TRANSFORMER POWER will be changed to new parts.



## 5. EXPLODED VIEWS

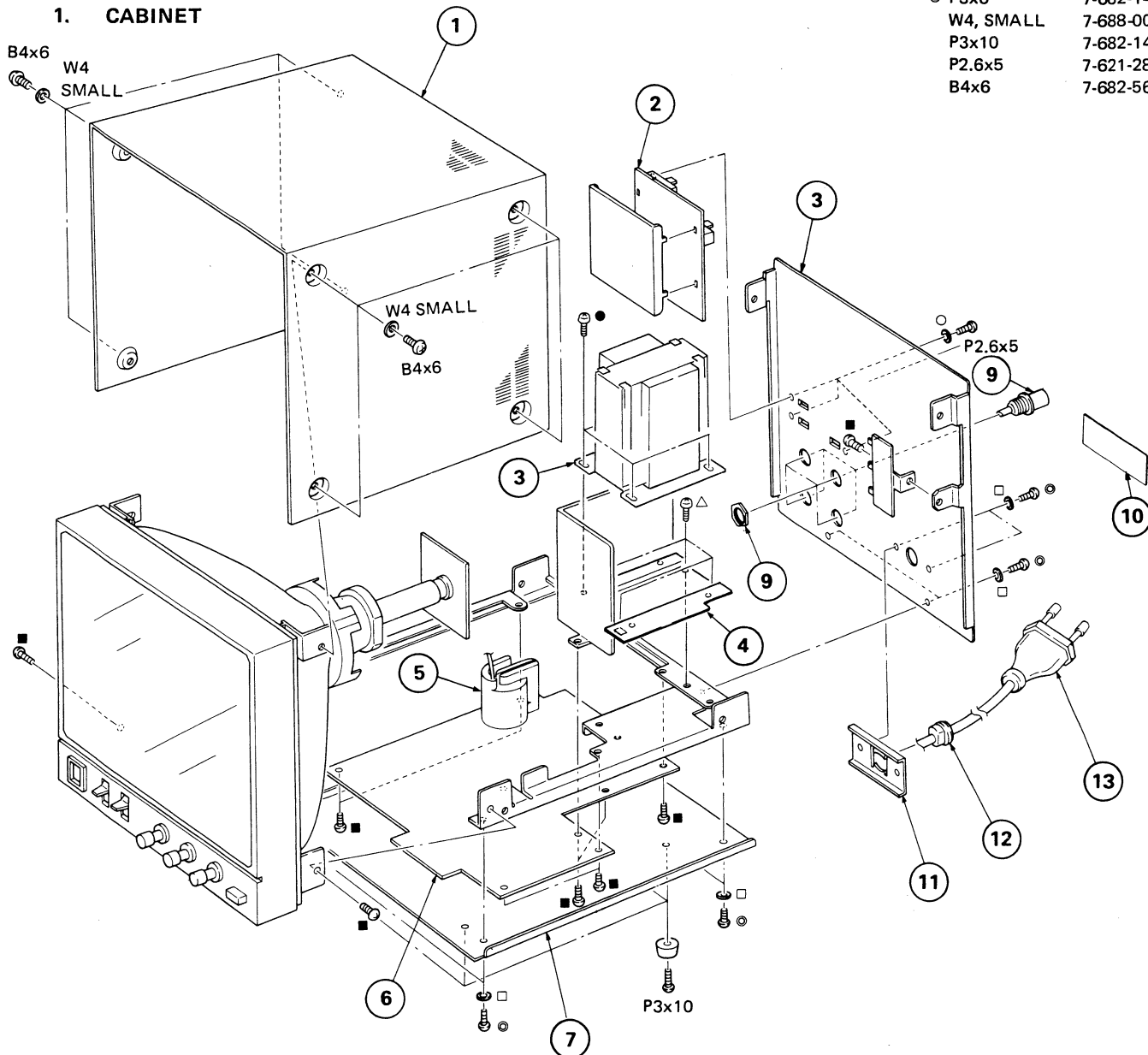
### NOTE:

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|               |              |
|---------------|--------------|
| ● BVTP4x10    | 7-685-660-14 |
| ○ W2.6, SMALL | 7-688-002-02 |
| △ BVTP4x8     | 7-685-659-79 |
| ■ BVTP3x10    | 7-685-647-79 |
| □ W3, SMALL   | 7-688-003-02 |
| ● P3x6        | 7-682-147-09 |
| W4, SMALL     | 7-688-004-02 |
| P3x10         | 7-682-149-01 |
| P2.6x5        | 7-621-284-10 |
| B4x6          | 7-682-560-09 |

### 1. CABINET



No. Part No. Description

|   |                |                           |
|---|----------------|---------------------------|
| 1 | 4-027-217-00   | CABINET                   |
| 2 | *1-608-456-11  | J BOARD                   |
| 3 | △ 1-449-357-11 | TRANSFORMER, POWER        |
| 4 | 4-027-226-01   | BRACKET, TRANSFORMER      |
| 5 | 1-439-298-00   | TRANSFORMER ASSY, FLYBACK |
| 6 | *A-1340-485-A  | MOUNTED PCB, D            |
| 7 | *4-027-213-00  | PLATE, BOTTOM             |

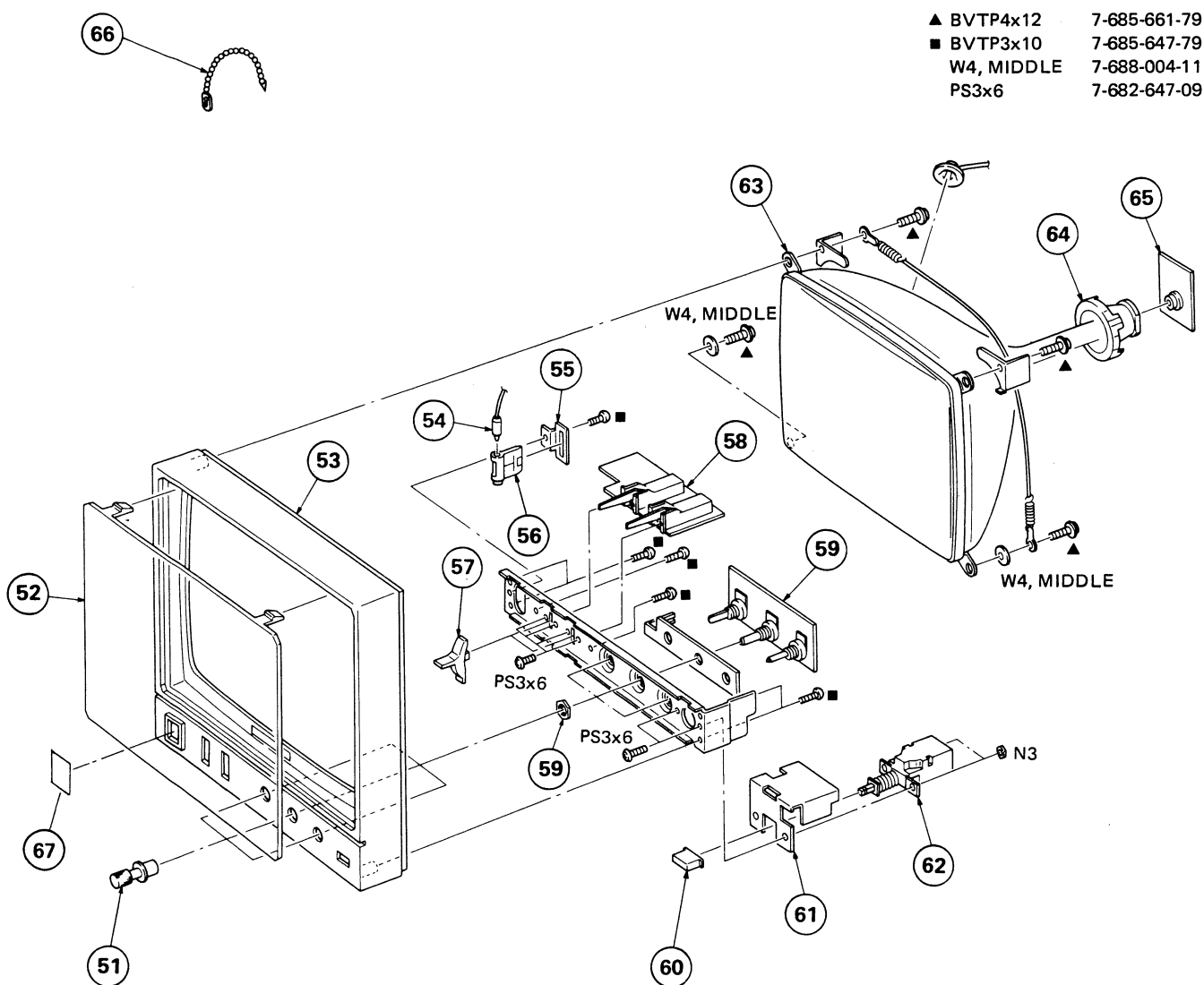
Remark

No. Part No. Description

|    |                |                             |
|----|----------------|-----------------------------|
| 8  | 4-027-214-00   | PANEL, REAR                 |
| 9  | 1-561-167-00   | CONNECTOR                   |
| 10 | *4-027-219-00  | LABEL, MODEL NUMBER (LARGE) |
| 11 | *4-025-821-00  | HOLDER, BUSHING (CE)        |
| 12 | △ 3-005-073-00 | STOPPER, CORD               |
| 13 | △ 1-534-820-XX | POWER CORD                  |

Remark

## 2. BEZEL



| No. | Part No.       | Description             |
|-----|----------------|-------------------------|
| 51  | X-4316-209-0   | KNOB ASSY, CONTROL      |
| 52  | 4-027-212-00   | FILTER                  |
| 53  | X-4027-202-1   | BEZEL ASSY              |
| 54  | ▲ 1-519-108-XX | NEON LAMP ASSY          |
| 55  | *4-308-211-00  | HOLDER, NEON LAMP       |
| 56  | *4-027-202-00  | HOLDER, LAMP            |
| 57  | 4-335-954-02   | KNOB (2P), LEVER SWITCH |
| 58  | *1-608-457-11  | Z BOARD                 |
| 59  | *1-608-455-11  | H BOARD                 |

| Remark | No. | Part No.       | Description                    | Remark |
|--------|-----|----------------|--------------------------------|--------|
|        | 60  | 4-335-962-00   | PUSH BUTTON                    |        |
|        | 61  | *4-027-218-00  | BARRIER                        |        |
|        | 62  | ▲ 1-553-330-21 | SWITCH, PUSH (POWER)           |        |
|        | 63  | ▲ 1-546-048-11 | CATHODE-RAY TUBE (B/W) E2733B4 |        |
|        | 64  | ▲ 1-451-216-21 | DEFLECTION YOKE                |        |
|        | 65  | *1-608-454-11  | C BOARD                        |        |
|        | 66  | 4-308-870-00   | CLIP, LEAD WIRE                |        |
|        | 67  | 4-340-203-00   | PLATE, NUMBER                  |        |



PVM-91CE

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*AEP Model*  
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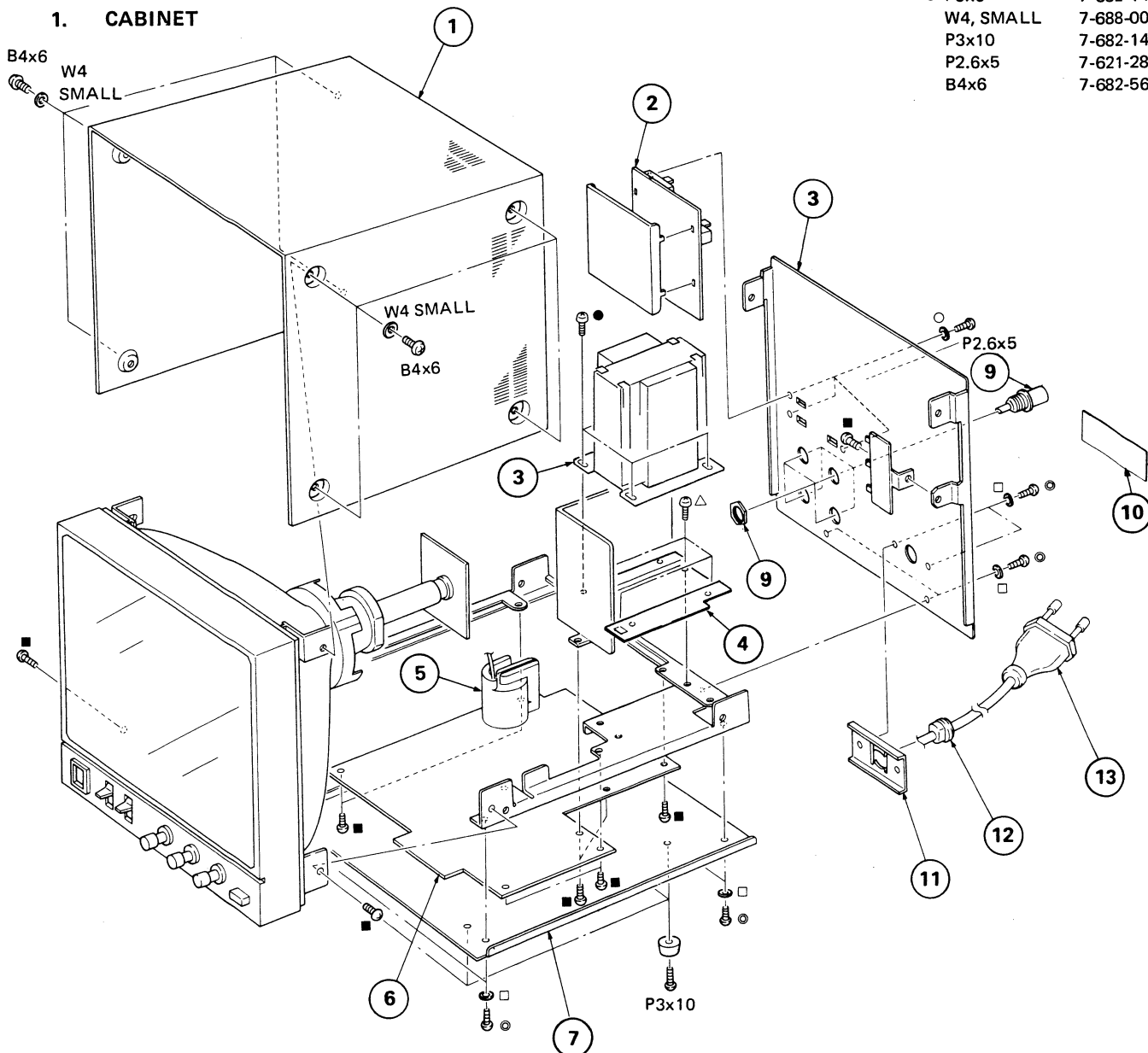
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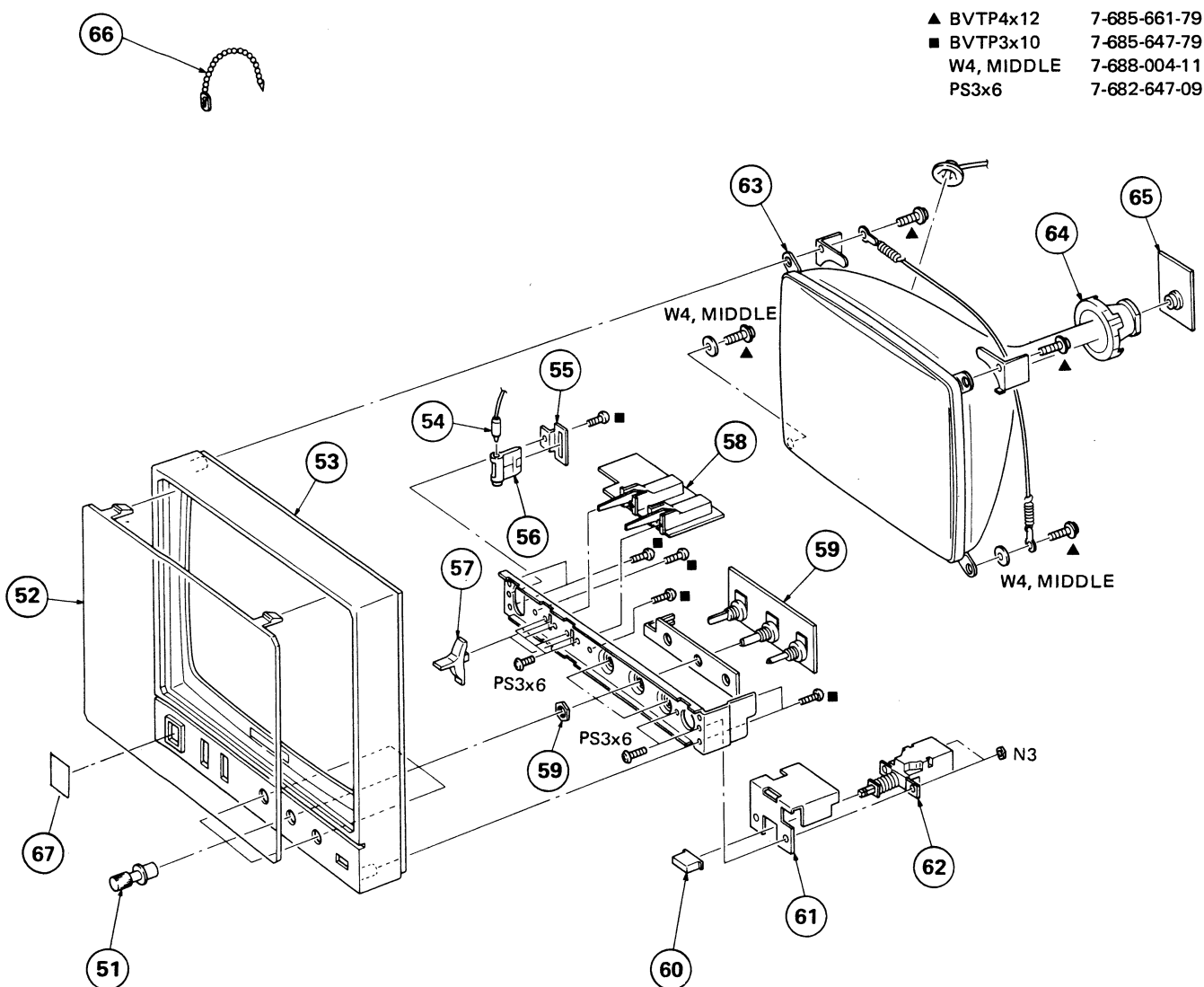
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| 6   | *A-1340-485-A  | MOUNTED PCB, D            |
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| No. | Part No.       | Description                 |
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